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United States Patent [19]

Gray

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[54] **PORTABLE WIRELESS TELEPHONE
 HAVING SWIVEL CHASSIS**

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Related U.S. Application Data

[63] Continuation of Ser. No. 162,757, Dec. 7, 1993, abandoned.

[51] **Int. Cl.⁶** H04M 1/00

[52] **U.S. Cl.** 379/433; 379/434

[58] **Field of Search** 379/433, 434,
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 329

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[57] **ABSTRACT**

The invention is the construction of a portable telephone made short enough and flat enough to be conveniently carried upon the person, yet allowing it to be quickly reconfigured into a form that is long enough and contoured enough to be effective and natural to use. The telephone chassis includes a pair of chassis sections which are interconnected by a pivot connection about which the chassis sections are rotated between open or closed positions. The pivot connection defines a pivot axis and a plane of rotation which are oriented in angulated relation with both chassis sections so that the chassis sections define a compact configuration when closed and an ergonomic configuration when rotated to the open position. A manually releasable spring urged locking mechanism is provided to lock the chassis sections against relative rotation at both the open and closed positions. A torsion spring is provided to partially open or partially close the chassis sections upon manual unlocking thereof and to permit free rotation during predetermined relative pivotal movement of the chassis sections. A mechanism may also be provided for automatic extension and retraction of an antenna which is actuated by opening and closing movement of the telephone chassis sections.

21 Claims, 4 Drawing Sheets

